

Recombinant Mouse NGAL

CAT. NO. SP002RA

OVERVIEW

Product Name Recombinant Mouse NGAL

Expression Host E. coli BL21 (DE3)

Type Recombinant protein

Gene ID 16819

Description Mouse neutrophil gelatinase-associated lipocalin (NGAL; also called lipocalin 2, 24p3, SIP24, uterocalin and siderocalin) is a member of the lipocalin family of proteins which bind and transport small lipophilic molecules. 24p3 was observed to be dramatically upregulated in kidney cell cultures infected with SV40 (1) and subsequently identified as a lipocalin (2). Unlike human NGAL, it is an acute phase protein upregulated in the liver (3), but like its mammalian homologues it is upregulated and secreted by the kidney in response to ischemic or nephrotoxic injury (4). It is also upregulated in the involuting uterus and mammary gland. (5)

Tested Applications ELISA

PROPERTIES

Form Liqued

Unit Size 1 mL

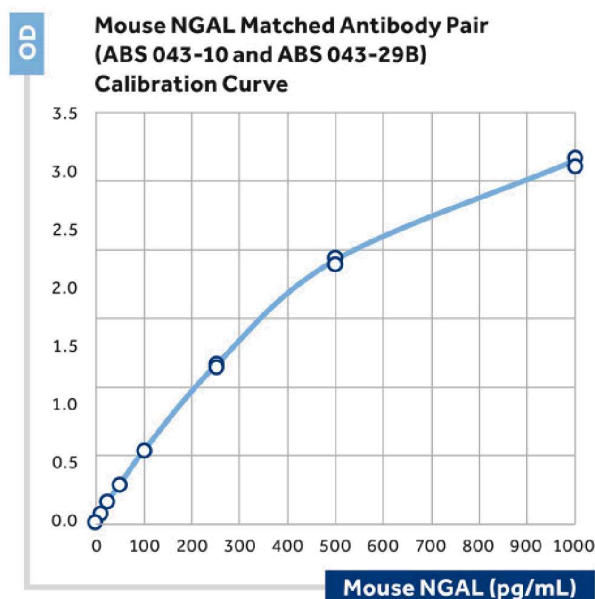
Concentration 1000 pg/mL±15%

Purification IMAC (Immobilized Metal Affinity Chromatography) as a first purification step, followed by proteolytic cleavage of the affinity tag and size exclusion chromatography.

Storage buffer 0.01 M phosphate buffer, pH 7.4, with 0.14 M NaCl, 0.5% BSA; 0.5% Tween 20; 0.0016% Phenol red; 0.1% Proclin 950

Storage condition 2-8°C without exposure to light

Safety Wear protective clothing



TESTED APPLICATIONS

ELISA This antigen is well suited as a standard in NGAL quantifying assays, such as ELISA.

SCIENTIFIC REFERENCES

1. Hrabá-Renevey S et al (1989) SV40-induced expression of mouse gene 24p3 involves a post transcriptional mechanism. *Oncogene* 4:601-608.
2. Flower DR, North AC, Attwood TK (1991) Mouse oncogene protein 24p3 is a member of the lipocalin protein family. *Biochem Biophys Res Commun* 180:69-74.
3. Liu Q, Nilsen-Hamilton M (1995) Identification of a new acute phase protein. *J Biol Chem* 270:22565-22570.
4. Mishra J et al (2003) Identification of neutrophil gelatinase-associated lipocalin as a novel early urinary biomarker for ischemic renal injury. *J Am Soc Nephrol* 14:2534-2543.
5. Ryon J et al (2002) High expression in involuting reproductive tissues of uterocalin/24p3, a lipocalin and acute phase protein. *Biochem J* 367:271-277.

CONDITIONS

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